

Title (en)

LEDGE-FREE ALUMINIUM SMELTING CELL

Title (de)

ALUMINIUM-SCHMELZZELLE OHNE WANDSCHUTZ DURCH DEN FESTEN ELEKTROLYTEN

Title (fr)

CELLULE DE FUSION D'ALUMINIUM SANS REBORD

Publication

**EP 0544737 B1 19960605 (EN)**

Application

**EP 91914846 A 19910819**

Priority

- AU PK184390 A 19900820
- AU 9100373 W 19910819

Abstract (en)

[origin: WO9203598A1] An aluminium smelting cell comprising side walls (5) and a floor (2) defining an active cathode, an anode (3) overlying the cathode floor (2), some said side walls (5) being covered by a wetted cathode material (6), such as one contained TiB<sub>2</sub>, so that the covered side walls become active cathode surfaces on which a film of aluminium metal forms to protect the side wall parts against bath attack, thereby enabling the cell to operate at the desired temperatures without the usual protective side ledge of the frozen electrolyte material.

IPC 1-7

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IPC 8 full level

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